



PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: A7936

Seongmoon WANG

Appln. No.: 09/805,899

Group Art Unit: 2133

Confirmation No.: 3488

Examiner: Shelly A. CHASE

Filed: March 15, 2001

For: LOW HARDWARE OVERHEAD SCAN BASED 3-WEIGHT WEIGHTED RANDOM
BIST ARCHITECTURES

SUBMISSION OF FORMAL DRAWINGS

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

RECEIVED

JUN 23 2004

Technology Center 2100

Sir:

Submitted herewith please find nine (9) sheets of drawings in compliance with
37 C.F.R. § 1.84. The Examiner is respectfully requested to acknowledge receipt of these
drawings.

Respectfully submitted,

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WASHINGTON OFFICE

23373

CUSTOMER NUMBER

Date: June 21, 2004



	<i>P</i> ₁	<i>P</i> ₂	<i>P</i> ₃	<i>P</i> ₄	<i>P</i> ₅	<i>s</i> _{1/0}	<i>s</i> _{1/1}	<i>s</i> _{2/0}	<i>s</i> _{3/1}	<i>s</i> _{4/0}	<i>s</i> _{4/1}
<i>gen</i> (<i>C</i> ⁰)	1	0	X	1	X	X	1	1	X	X	1
<i>gen</i> (<i>C</i> ¹)	0	X	1	1	U	1	0	X	1	X	1
<i>gen</i> (<i>C</i> ²)	X	0	U	X	X	X	X	1	0	X	X
<i>gen</i> (<i>C</i> ³)	0	0	1	0	X	1	0	1	1	1	0
<i>glob_gen</i>	B	0	1	B	N						

GENERATORS (WEIGHT SETS)

OVERRIDING SIGNALS

FIG. 1



	P1	P2	P3	P4	P5	S1/0	S1/1	S2/0	S3/1	S4/0	S4/1
<i>gen(C₀)</i>	1	0	X	1	X	X	1	1	X	X	1
<i>gen(C₁)</i>	0	X	1	1	U	1	0	X	1	X	1
<i>gen(C₂)</i>	X	0	U	X	X	X	X	1	0	X	X
<i>gen(C₃)</i>	0	0	1	0	X	1	0	1	1	1	0
<i>glob_gen</i>	B	0	1	B	N						

GENERATORS (WEIGHT SETS)

OVERRIDING SIGNALS

FIG. 2

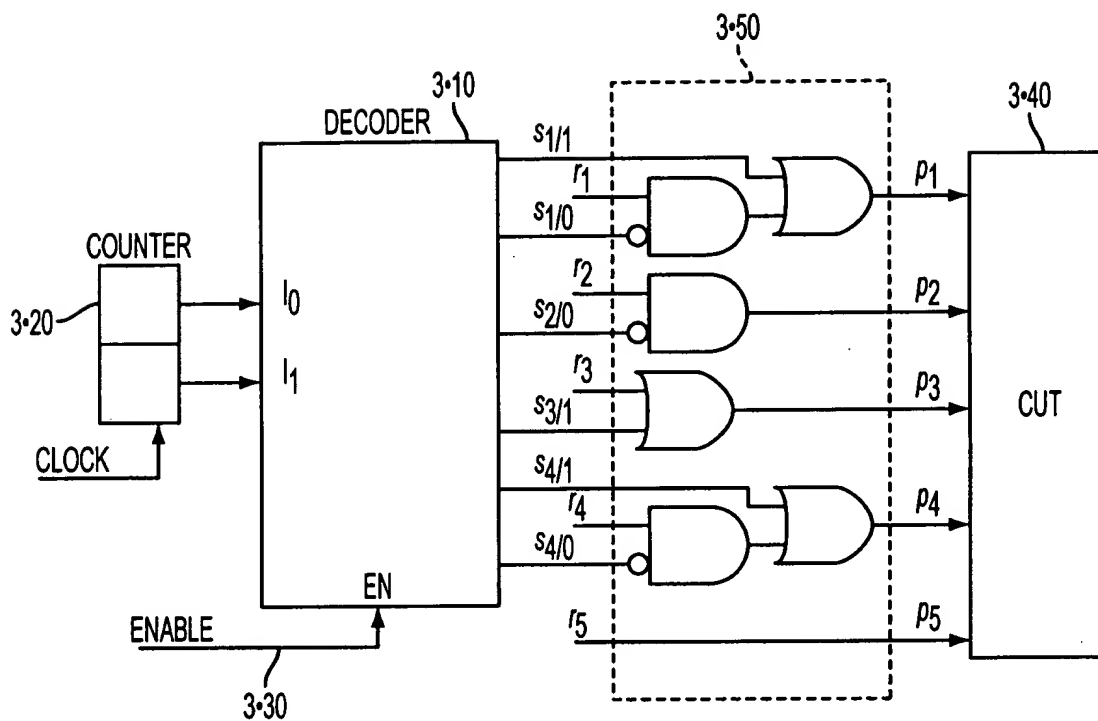


FIG. 3

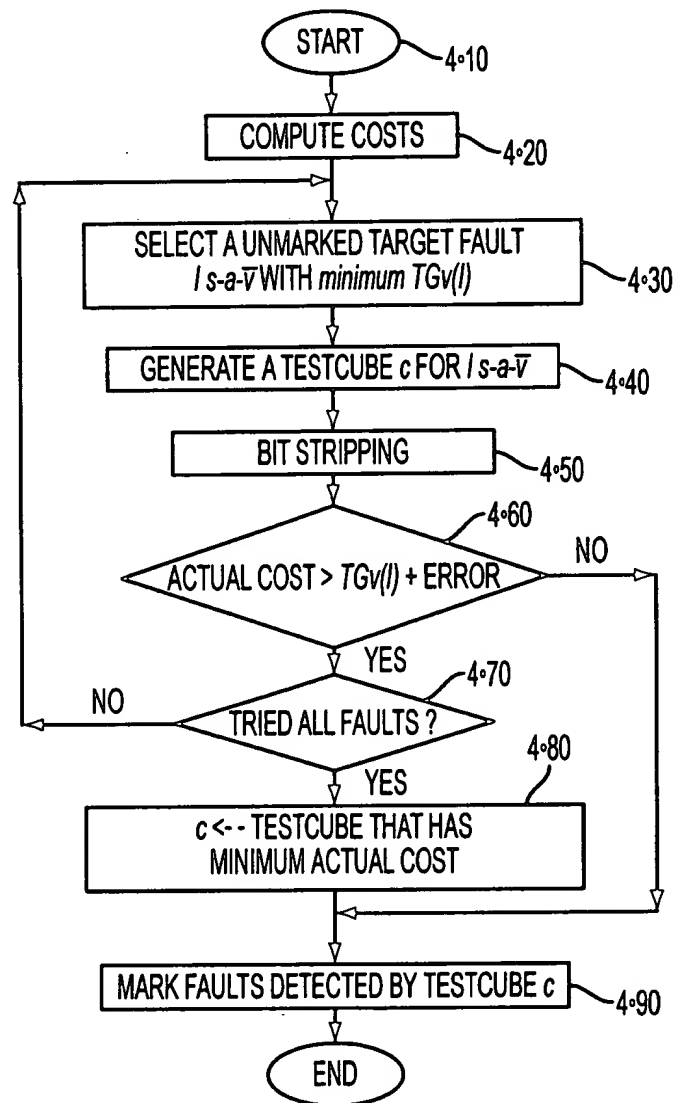


FIG. 4

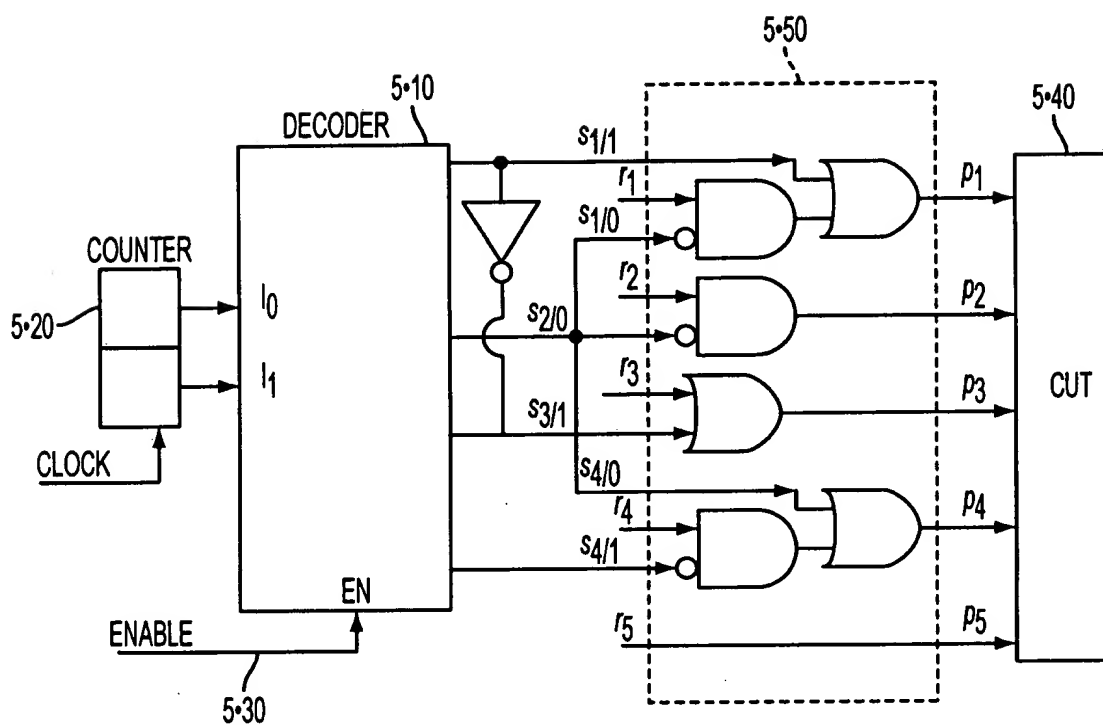


FIG. 5

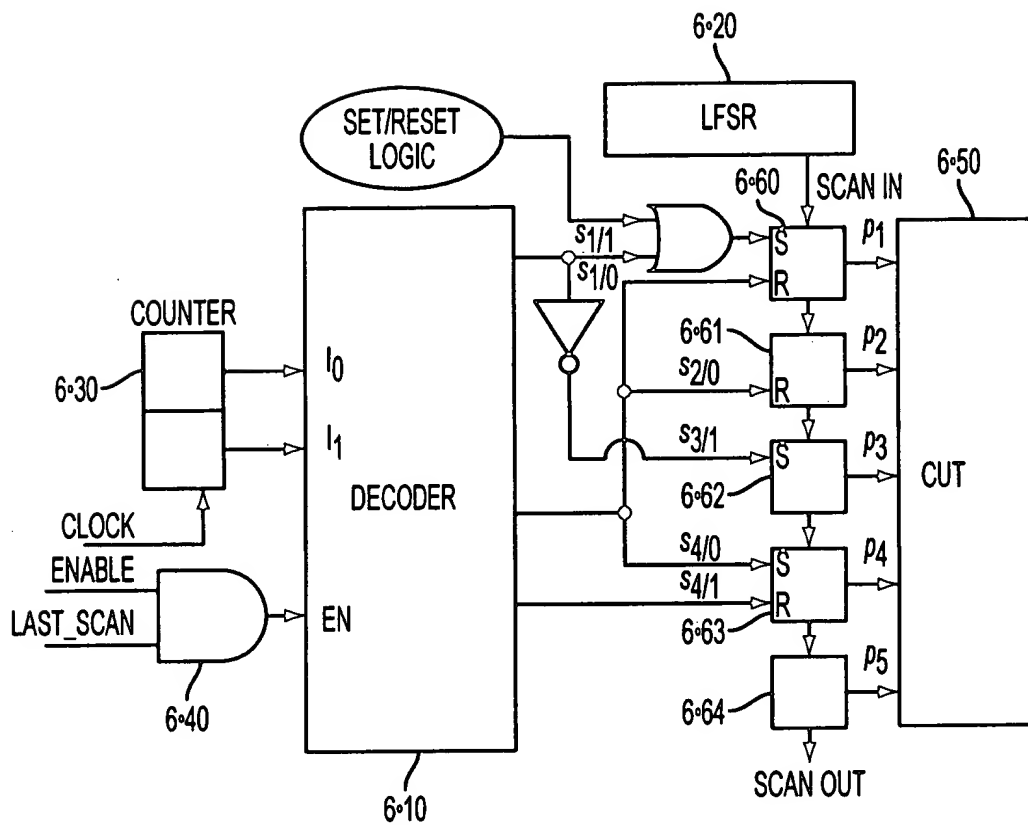


FIG. 6

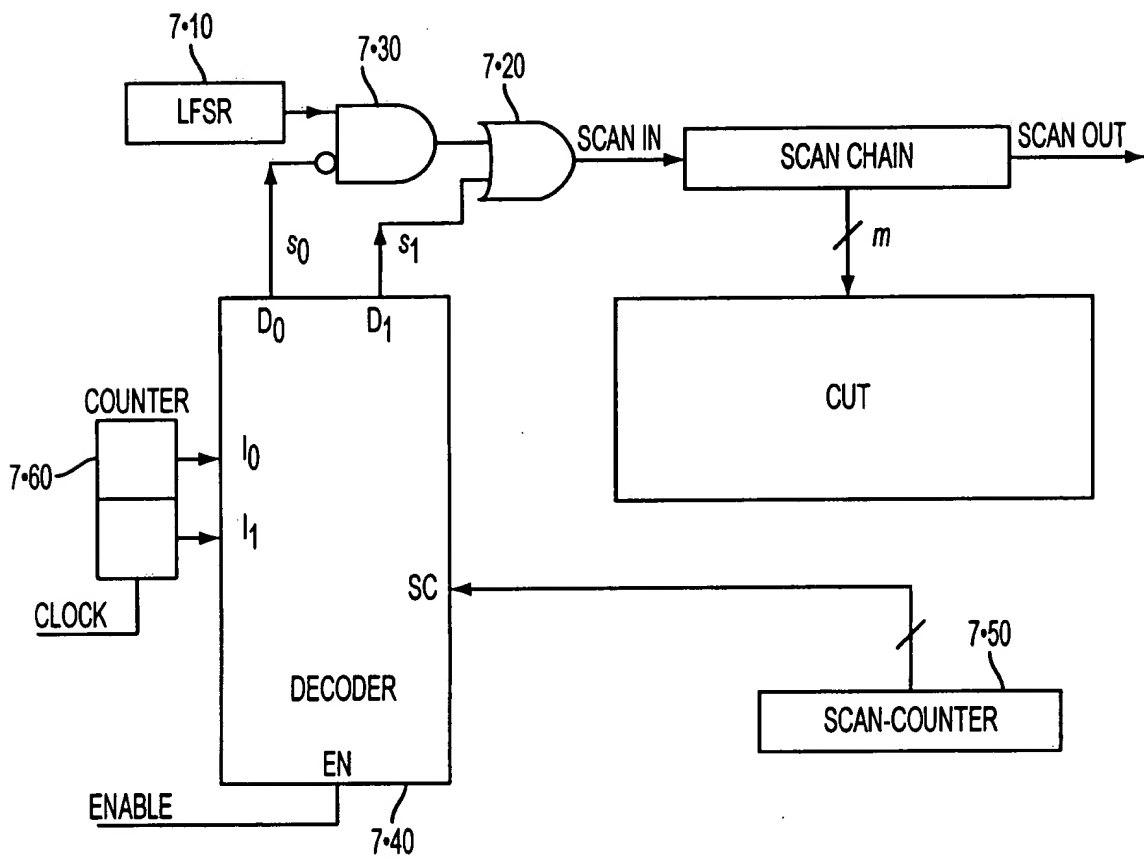


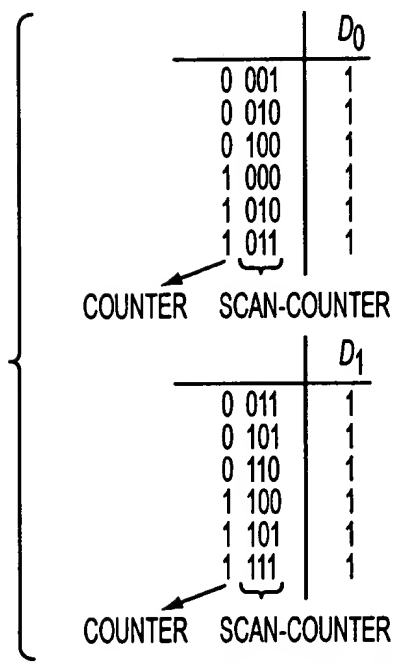
FIG. 7



	p_0	p_1	p_2	p_3	p_4	p_5	p_6	p_7
$gen(C^0)$	U	0	0	1	0	1	1	X
$gen(C^1)$	0	U	0	0	1	1	X	1

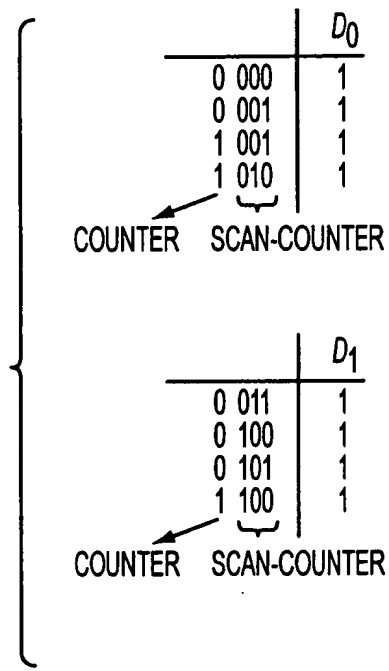
GENERATORS

FIG. 8A



WITHOUT TOGGLE F/F

FIG. 8B



WITH TOGGLE F/F

FIG. 8C

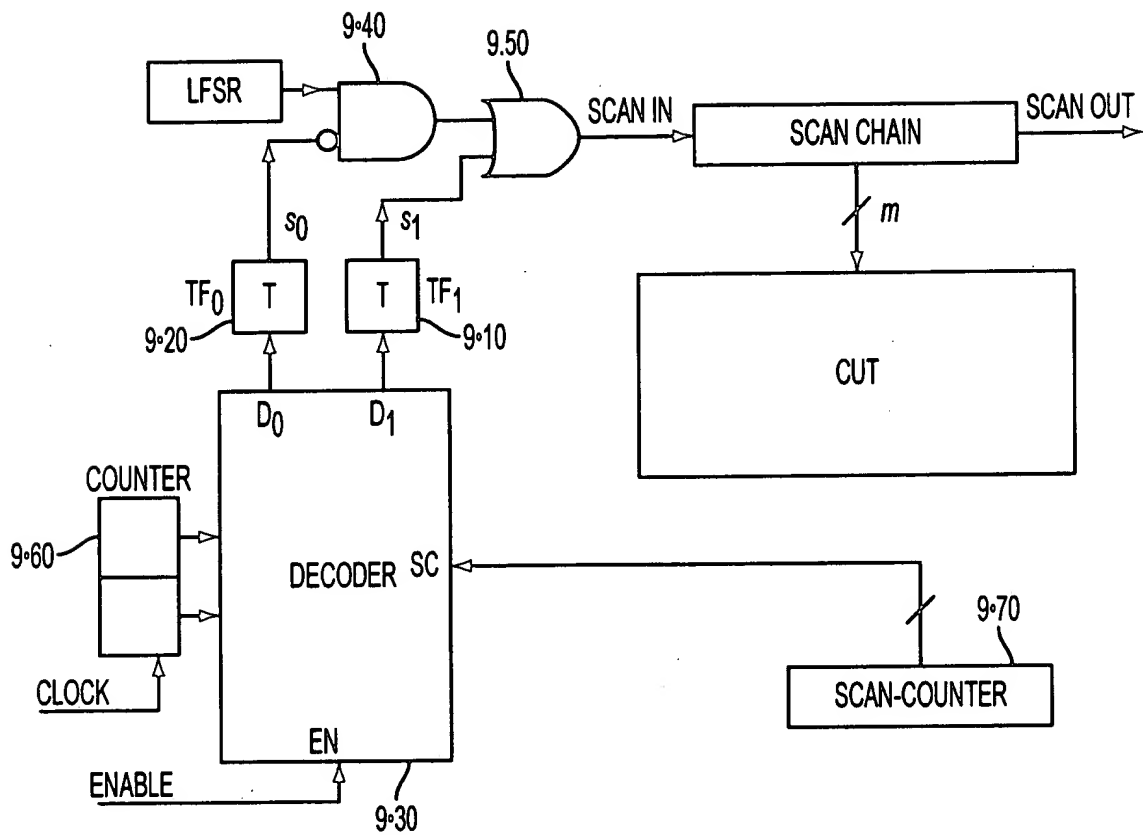


FIG. 9